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TITLE: REFERENCE POSITION DETECTOR FOR SHAFT

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INVENTOR-INFORMATION:

NAME

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COUNTRY

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ABSTRACT:

PURPOSE: To stop a motor at a reference position by arranging a sensor for detecting the reference position of shaft on a supporting section, arranged in proximity to the end of shaft rotation transmitting section, while opposing to the end of the shaft rotation transmitting section.

CONSTITUTION: An output shaft 5 is arranged at the nut 2 side of a motor 1, a supporting section 7 is arranged at the outside of a rotation transmitting section 4 arranged on the other bearing 3 side, and an optical sensor 6 is arranged at a position opposing to the rotation transmitting section 4 on one side of the supporting section 7. When the output shaft 5 constituting a shaft and the rotation transmitting section 4 rotate in the direction shown by an arrow R and perform direct advance motion, the end of the rotation transmitting section 4 moves from position A to position B where the optical sensor 6 is located. At that time, the end of the rotation transmitting section 4 on the bearing 3 side reaches, as an object to be detected, within the working range of the sensor 6. Consequently, the sensor 6 outputs an Hi signal which is detected as a reference position. By such arrangement, reference position of shaft can be detected accurately and reproduced.

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